COMPUTER SET, DIGITAL: OL-590/TYQ (SAMS-1 CONFIG)

LIN: C28078 NSN: 7010-01-420-4975 EIC: QTO

PREVENTIVE MAINTENANCE CHECKS AND SERVICES

Maintenance Level

Operator

INTRODUCTION

General

Preventive Maintenance Checks and Services (PMCS) are performed to keep the system in operating condition. The checks are used to find, correct, or report problems. SAMS-1 operators are to do the PMCS jobs as shown in the PMCS table. PMCS are done every day the system is operated, using the PMCS table. Pay attention to WARNING and CAUTION statements. A WARNING means someone could be hurt. A CAUTION means equipment could be damaged.

Operators are not allowed to perform PMCS $\underline{internally}$ to any hardware.

Before you begin operating the system, do Before PMCS.

During operation, do During PMCS.

After operation, do After PMCS.

Once a week do Weekly PMCS. If the system has not been operated in a week also do Before PMCS at the same time.

Do Monthly PMCS once a month. If the system has not been operated in a month also do After PMCS at the same time.

If you are operating the system for the first time, do Weekly and Monthly PMCS the first time you do your Before PMCS.

If you find a fault when performing PMCS, repair it if you can, using both troubleshooting procedures and maintenance procedures.

The right-hand column of the PMCS table lists conditions that make the system not fully mission capable. Write up items not fixed on DA Form 2404/5988-E, Equipment Inspection and Maintenance Worksheet, for unit maintenance. For further information on how to use this form, see DA PAM 738-750.

If tools required to perform PMCS are not available, notify unit maintenance.

INSPECTION

Look for signs of a problem or trouble. Senses help here. You can feel, smell, hear, or see many problems. Be alert when operating the system.

Inspect to see if items are in good condition. Are they correctly assembled, stored, secured, excessively worn, or corroded? Correct any faults found, document on a DA Form 2404/5988-E, and notify unit maintenance. There are some common items to check all over the system. The include the following:

1. Bolts, clamps, nuts, and screws: Continuously check for looseness. Look for chipped paint, bare metal, rust or corrosion around bolt and screw heads and nuts. Tighten them when you find them loose. If tools are not available, notify unit maintenance.

- 2. Welds: The cases of the system are welded. To check these welds, look for chipped paint, rust, corrosion, or gaps. When these faults exist document on a DA Form 2404/5988-E, and notify unit maintenance.
- 3. Electrical wires, connectors, and harnesses: Tighten loose connectors. Look for cracked or broken insulation, bare wires, and broken connectors. If faults are found document on a DA Form 2404/5988-E, and notify unit maintenance.

CLEANING

CAUTION

Follow all cleaning instructions carefully. Failure to do so can result in damage to equipment.

WARNING

Do not clean the cases or chassis when electrical power is applied. Disconnect all power cables.

Proper cleaning can aid in avoiding maintenance faults or trouble, so make it a habit to do the following:

- 1. Use a damp (water), lint-free cloth to clean the system unit and monitor. Avoid abrasives or solvents; they can permanently damage the finish.
- 2. Use a soft cloth and window cleaner to clean the monitor screen.
- 3. All floppy disk drives and tape drives should be cleaned periodically. Cleaning kits are available from a variety of sources. Carefully follow the instructions supplied with the cleaning kit you use.
- 4. Operating a system in a dusty or dirty environment significantly shortens its life and increases the probability of failure.
- 5. If you spill liquid inside the keyboard, unplug the keyboard immediately and turn it upside down to allow the liquid to drain out. Let the keyboard dry overnight before attempting to use it again. If it fails to work after drying document on a DA Form 2404/5988-E, and notify unit maintenance.

OPERATION

CAUTION

If your system is to be operated in cold weather and has been stored for an extended period, allow the system unit and monitor to warm up to room temperature. Exposing a cold computer to a warm room causes condensation that could damage the system. If condensation forms, wait for it to dry before plugging in the system.

The system requires good ventilation. Place it where air can circulate freely around it, and avoid locations in direct sunlight or near heaters or lamps. Never block the cooling fan opening. Avoid locations with high levels of dirt, dust, or smoke.

CAUTION

To prevent fire or shock hazard, do not expose the computer to rain, snow, or moisture.

Check the transit cases and computer/monitor chassis for damage. If the cases/chassis are damaged notify unit maintenance.

Make sure your computer is unplugged before connecting any peripherals, i.e., printers, monitors, and keyboards.

CAUTION

It is recommended that a surge/spike protector be used to help safeguard your equipment against any dangerous irregularities in the AC line. Uninterruptible power supplies are to be used, where provided, to protect against power lose.

CAUTION

Ensure that the equipment is connected to the correct power source. Failure to do so can result in damage to the hardware.

Procedures outlined are in accordance with the original equipment manufacturer (OEM) manuals for the hardware.

The functions and processes outlined are in accordance with the Standard Army Maintenance System Level 1 (SAMS-1) End User Manual (EUM) AISM 25-L21-AHN-ZZZ-EM, dated 1 June 1997.

Only those functions and processes that are applicable to a unit's mission are to be evaluated.

Table 1. Preventive Maintenance Checks and Services.

ITEM NO.	INTERVAL	MAN- HOUR	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
				NOTE Crew will inspect for damaged or missing items while performing checks.	
1	Before		Server and Workstation Central Processing Unit (CPU) Chassis, Exterior	Check for damaged or missing items.	Any damaged or missing items that will prevent operation
2	Before		Cables	Check for loose cables. Check for frayed or damaged cables.	Any loose or damaged cables that will prevent
3	Before		Monitor(s)	Check for damage to exterior. Check screen for scratches.	operation
				Check cables for damaged or bent pins.	Any damage or scratches that will prevent operation or
4	Before		Printer(s)	Check for damaged to exterior. Check for damage to connectors.	block vision
				Check for damaged or worn ribbon.	Any item that will prevent operation
				 Make sure all pin rollers and gears operate smoothly. Make sure paper will feed in properly. Make sure all buttons operate properly. 	prevent operation
5	Before		Keyboard(s)	Check for damage to exterior. Check for damage to any keys. Check for damage to cable.	Any item that will
6	Before		MODEM(s)	Check for damage to exterior. Check cables for damaged or bent pins.	prevent operation
7	Before/After Monthly		Floppy Disk Drive(s)	Perform floppy drive cleaning procedures.	Any item that will prevent operation
8	Before/After Monthly		Tape Drive(s)	Perform tape drive cleaning procedures.	Any item that will prevent operation
9	During		Power-up Procedures	Perform OEM/EUM hardware power up procedures for all items to include peripheral	Any item that will prevent operation
				devices (i.e., Printer(s), and MODEM).	Unable to power-up the CPU or monitor
10	During		Session Initialization	Perform Session Initialization procedures.	
11	During		Maintenance Activity	Work Order/Task Process	Unable to initialize session or sign-on
			Processes	Work Order Tasks Process	Unable to complete the Maintenance
				Parts Process	Activity Process.
				Inoperative Scroll Process	
12	During		Supply Activity Processes	Perform the Requisition Receipts procedures.	
				Perform the Non-Requisitioned Receipts procedures. Perform the Shop Stock List procedures.	Unable to complete the Supply Activity Processes.

ITEM NO.	INTERVAL	MAN- HOUR	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
	During		Manpower Activity Processes	Perform the Bench Stock List procedures.	Unable to complete the Manpower Activity Processes.
				Perform the Transfer Parts procedures.	
				Perform the Off Line Status procedures.	
				Perform the Supply Transaction procedures.	
				Perform the Recoverable/excess Turn-In procedures.	
				Perform the Document Register procedures.	
13				Perform the Initial Manpower Set Up procedures.	
				Perform the Posting Manhours procedures.	
				Perform the Manhour Accounting Transfer procedures.	
				Perform the Reassigning Personnel procedures.	
				Perform the Manpower Data Flow procedures.	
				Perform the Manhour Accounting File procedures.	
				Perform the Personnel File procedures.	
				Perform the Update Work Days/Manhours procedures.	
14	During		Inquiry Activity Processes	Perform the Ad Hoc Inquiry procedures.	
				Perform the Work Order Inquiry procedures.	Unable to complete the Inquiry Activity
15	During		Interface Activity Processes	Perform the Output procedures.	Processes.
			11000303	Perform the Input procedures.	Unable to complete the Interface Activity
16	During		Supply Calculations/ Purge Activity Processes	Perform the RO/ROP procedures.	Processes.
				Perform the Follow-Up procedures.	Unable to complete the Supply Calculations/Purge Activity Processes.
				Perform the SSL Replenishment procedures.	
				Perform the SSL Manual Inventory procedures.	
				Perform the BSL Replenishment procedures.	
				Perform the Purge Document Register procedures.	
17	During		Report Activity Processes	Perform the Purge SSL Audit procedures.	Unable to complete the Report Activity Processes
				Perform the Purge RPM procedures.	
				Perform the Maintenance Reports procedures.	
				Perform the Supply Reports procedures.	
				Perform the Manpower Reports procedures.	
18	During		Master Files Activity	Perform the UIC Master File procedures.	

ITEM NO.	INTERVAL	MAN- HOUR	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
19	During		Processes Utilities Activity Processes Communications	Perform the UIC Parameter Maintenance procedures. Perform the Equipment Master File procedures. Perform the Repair Parts Master File procedures. Perform the Diskette/Comm Parameter File procedures. Perform the File Maintenance procedures. Perform the Print Labels procedures. Perform the Retransmit Comm procedures. Perform the Work Order Transfer to SAMS-1/SMS-1 procedures. Perform the UIC Support Change procedures.	AVAILABLE IF: Unable to complete the Master Files Activity Processes. Unable to complete the Utilities Activity Processes.
			Activity Processes	Perform the BLAST Point-to-Point procedures. Perform the COMM Monitor procedures. Perform the CAISI BLAST procedures. Perform the BLAST Concentrator procedures. Perform the Communications Configurations procedures. Perform the Setting Up for Communications procedures.	Unable to complete the Communications Activity Processes.
21	During		Computer System Status Processes Stopping and Suspending Work Procedures Power-down Procedures	Perform the Printer Status procedures. Perform the ECP Status procedures.	Unable to complete the Computer System Status Processes.
22	During			Perform Log out.	
23	During/After			Power-off CPU. Power-off Printer(s). Power-off MODEM.	Unable to log out of application Unable to Power-off CPU(s)